

Giorgio Zanoni

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Birth Date: 12.07.1991 - Nationality: Italian
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EDUCATION

Professional practice examination ("abilitazione")

Chemist

Nov. 2020

Master

Chemistry

2017 – 2019

University of Padua (IT)

Thesis: "Synthesis of polyoxometalates with potential biological activity"

Grade: 110/110

Erasmus Mobility

Chemistry

2018 – 2019

Justus-Liebig-Universität,
Giessen (DE)

Bachelor

Chemistry

2014 – 2017

University of Padua (IT)

Thesis: "Utilizzo della tecnica FT-IR per l'analisi del contenuto di glucosio e fruttosio in mosti d'uva da vino"

Grade: 100/110

WORK EXPERIENCE

Researcher - Metabolomics

May 2022 – Present

Edmund Mach Foundation, Trento, Italy

Targeted and untargeted metabolomics analysis in nutrition and agronomics.

Development and execution of targeted analysis via LC-MS and GC-MS. Main analytes researched are:

- Terpenes, norisoprenoids, other wine volatile compounds
- Volatile thiols
- Polyphenols
- Glucosinolates
- Terpene glycosides

Isolation of natural compounds via preparative HPLC and Centrifugal Partition Chromatography and characterization of compounds via HRMS and NMR

Synthesis of natural compounds and metabolites

LC-MS training for visitor students and researchers, co-supervisor in experimental projects aimed at thesis writing.

Laboratory Technician

April 2021 – May 2022

Edmund Mach Foundation, Trento, Italy

Development of new methods for the determination of analytes in the field of food chemistry.

Execution of certified analyses (ISO 17025) on wine and must:

- Chloride and sulfate (IC- ConD);
- Ochratoxin A (immunoaffinity SPE followed by HPLC-FLD);
- Sorbic acid (HPLC-DAD).

Preparation of samples and execution of analyses on food and beverages for the determination of:

- Water-soluble vitamins, alkaloids, mycotoxins, cinnamic acids and flavonols (UHPLC-Orbitrap);
- Organic acids, inorganic anions, carbohydrates, cyanide and sulphide (IC-ConD, IC-PAD);

Laboratory Technician

June 2020 – March 2021

Teralab, Trento, Italy

Implementation of ISO and EPA methods for environmental parameters.

Execution of environmental analyses:

- Trace elements (ICP-MS);
- Organic contaminants (GC-FID, GC-ECD, GC-MS);

Typical environmental matrices:

- Soils, solid wastes and wastewaters;
- Drinking waters, surface and underground waters;

LANGUAGE SKILLS

Italian:

Native

English:

Upper Intermediate (B2)

German:

Advanced beginner (A2)

ANALYTICAL SKILLS

Mass Spectrometry	●●●
NMR (1D and 2D)	●●●
HPLC	●●●
ICP-MS	●●●
Ion Chromatography	●●●
Gas chromatography	●●●

OTHER EXPERIENCES

Blood donor

March 2020 - present

AVIS

Associated effective blood donor.

Volunteer

Dec. 2014

Red Cross

First aid course.

Volunteer

2012 - 2014, 2024 - 2025

AGESCI

Team leader in the Italian scout association.

RECENT TRAININGS

International School on Mass Spectrometry 2024

September 2024

Italian Chemists Association –
Ettore Majorana Foundation

Ion mobility mass spectrometry: Fundamentals, Advances, and Applications

Corso di spettrometria di massa 2022

March 2022

Italian Chemists Association

Training on theoretical bases, practical applications and modern aspects of mass spectrometry

Introduction to structural crystallography and diffraction

June 2018

University of Padua

School: X-ray based methods for the investigation of molecules and materials, with special focus on X-ray diffraction

RECENT PUBLICATIONS

Insight on Lugana wines flavor with a new LC-MS method for the detection of polyfunctional thiols

June 2025

Journal of Food Composition and Analysis

DOI: 10.1016/j.jfca.2025.107458

Polyphenol Composition of Traditional Decoctions from *Polygoni Cuspidati Rhizoma et Radix* of Different Origin and Their Impact on Human Gingival Fibroblasts

February 2025

Applied Science

DOI: 10.3390/app15041914

I hereby authorize the use of my personal data in accordance to the GDPR 679/16 - "European regulation on the protection of personal data".

Trento, 31 October 2025

Giorgio Zanoni

